12142000 NORTH FORK SNOQUALMIE RIVER NEAR SNOQUALMIE FALLS, WA

Puget Sound Basin
Snoqualmie Subbasin

LOCATION.--Lat 47°36′54″, long 121°42′44″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.31, T.25 N., R.9 E., King County, WA, Hydrologic Unit 17110010, on left bank 0.6 mi upstream from Calligan Creek, 7.0 mi northeast of town of Snoqualmie Falls, and at mile 9.2.

DRAINAGE AREA.--64.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1929 to October 1949, water years 1950-54, 56-57, 59-60 (annual maximum), February 1961 to current year.

REVISED RECORDS.--WSP 1346: 1930-31(M), 1932, 1935, 1936-37(M), 1938, 1939-42(M), 1944, 1945-46(P), 1947, 1948(P), 1949(M). WSP 1736: 1932-34(M), 1935, 1938(M), 1943-45(M), 1947(M), drainage area. WSP 1932: 1950-54(M), 1956-57(M), 1959(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,130 ft above NGVD of 1929, from topographic map. Prior to Oct. 19, 1949, water-stage recorder, and October 1949 to February 1961, crest-stage gage, at site 1,500 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. Daily water temperatures June 1979 to August 1980. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--66 years (water years 1930-49, 1962-2007), 501 ft^3/s, 106.40 in/yr, 363,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft^3/s, Feb. 26, 1932, gage height, 17.5 ft, site and datum then in use, from rating curve extended above 2,200 ft^3/s, on basis of slope-area measurement at gage height 16.47 ft; minimum discharge observed, 30 ft^3/s, Sept. 17-19, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 4	2145	5,790	8.57
Nov 6	1630	*14,200	*12.40
Jan 2	1915	5,690	8.51
Mar 12	0600	6,660	9.07
Mar 24	1215	6,700	9.09

Minimum discharge, 37 ft^3/s, Sept. 16, gage height, 1.59 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	88	216	350	308	260	276	598	486	614	344	79	63
2	82	207	304	3,250	247	256	486	555	655	323	75	59
3	76	1,340	279	2,050	235	303	419	583	756	308	71	56
4	71	3,020	302	1,080	230	363	392	520	786	309	68	58
5	67	2,650	369	716	293	483	387	468	615	317	65	58
6	64	9,320	363	658	448	568	460	394	494	290	61	55
7	62	8,130	434	1,160	520	745	664	442	423	245	60	51
8	60	2,450	482	1,100	553	794	791	697	402	218	84	49
9	59	1,220	505	961	472	632	915	717	357	199	94	46
10	56	1,100	562	857	425	593	663	544	773	193	74	44
11	54	1,060	1,140	599	497	2,990	498	507	771	185	69	42
12	52	1,050	1,270	474	552	4,330	413	507	470	173	64	41
13	51	1,450	1,200	413	422	1,500	385	530	427	163	60	40
14	49	951	1,360	364	384	900	522	423	377	153	57	39
15	60	1,320	1,640	329	1,480	665	550	438	364	137	54	39
16	233	1,740	786	314	1,810	715	468	613	387	125	51	40
17	209	796	567	293	957	863	575	547	914	116	50	70
18	156	591	457	279	877	2,010	535	469	853	115	48	135
19	648	752	404	312	792	1,370	474	499	606	139	52	103
20	650	1,020	377	408	1,200	1,450	412	518	543	136	66	88
21	328	1,030	527	331	690	898	364	610	528	163	153	78
22	232	822	437	334	530	731	351	525	471	161	150	78
23	187	679	400	643	444	923	360	458	401	184	106	82
24	226	554	405	628	392	5,450	390	450	370	184	90	72
25	476	475	825	542	363	3,620	518	496	505	152	80	67
26	315	420	539	444	341	1,430	622	513	398	128	91	64
27	431	378	484	386	308	986	614	545	372	112	109	62
28	391	328	388	346	295	745	820	470	364	101	86	125
29	382	293	341	320	---	598	680	400	425	95	77	165
30	340	363	309	300	---	529	493	509	385	91	70	200
31	256	---	282	279	---	632	---	611	---	85	66	---
Total	6,411	45,725	18,088	20,478	16,017	38,348	15,819	16,044	15,806	5,644	2,380	2,169
Mean	207	1,524	583	661	572	1,237	527	518	527	182	76.8	72.3
Max	650	9,320	1,640	3,250	1,810	5,450	915	717	914	344	153	200
Min	49	207	279	279	230	256	351	394	357	85	48	39
Ac-ft	12,720	90,700	35,880	40,620	31,770	76,060	31,380	31,820	31,350	11,190	4,720	4,300
Cfsm	3.23	23.8	9.12	10.3	8.94	19.3	8.24	8.09	8.23	2.84	1.20	1.13
In.	3.73	26.58	10.51	11.90	9.31	22.29	9.19	9.33	9.19	3.28	1.38	1.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	393	696	703	664	519	485	587	707	629	295	130	208
Max	906	1,894	1,856	1,310	1,295	1,250	968	1,248	1,338	733	439	575
(WY)	(1935)	(1991)	(1934)	(1934)	(1982)	(1972)	(2002)	(1936)	(1974)	(1972)	(1964)	(2004)
Min	38.3	85.4	209	124	201	225	279	327	145	70.3	41.5	44.2
(WY)	(1988)	(1937)	(1986)	(1937)	(1938)	(1992)	(1975)	(1992)	(1934)	(1940)	(2003)	(1938)

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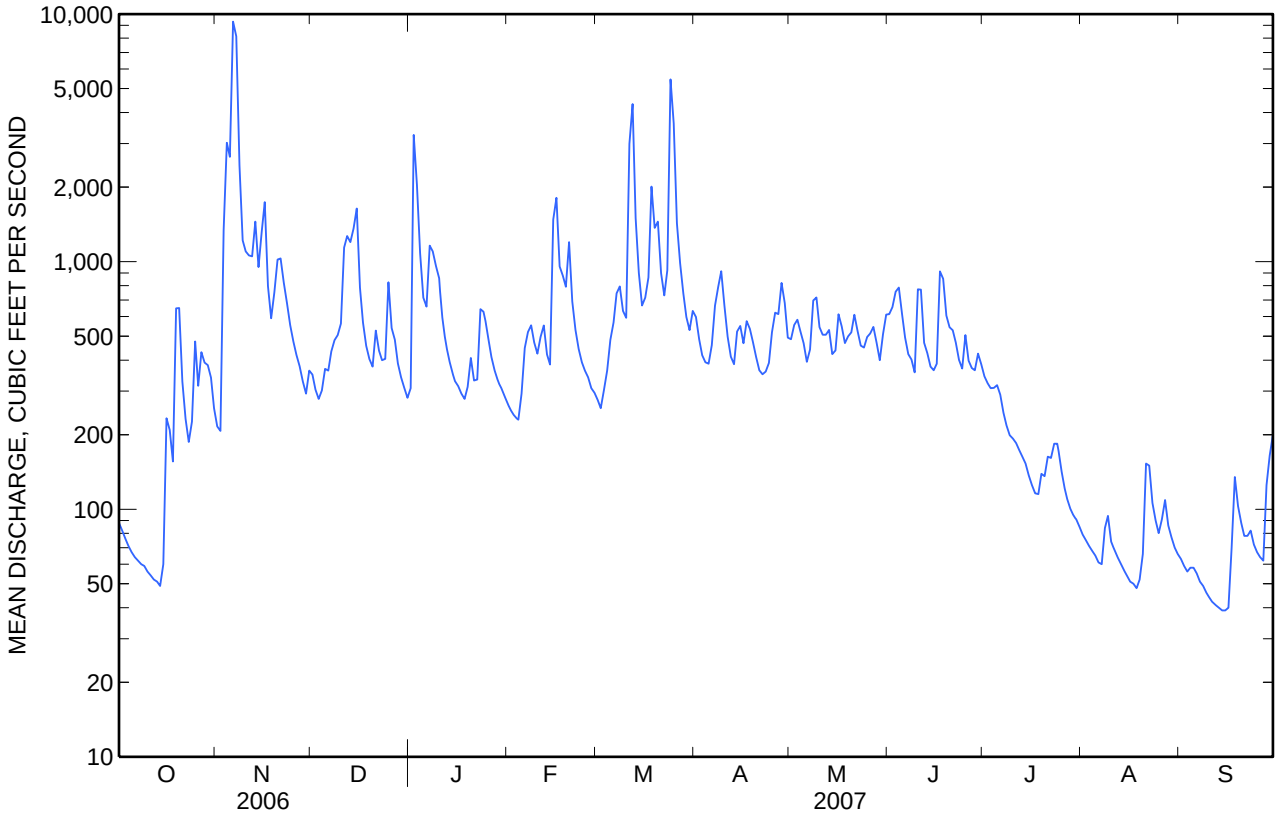
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1930 - 2007	
Annual total	191,636		202,929			
Annual mean	525		556		501	
Highest annual mean					736	1972
Lowest annual mean					335	1930
Highest daily mean	9,320	Nov 6	9,320	Nov 6	9,580	Oct 25, 1934
Lowest daily mean	39	Sep 13	39	Sep 14	31	Sep 16, 1998
Annual seven-day minimum	41	Sep 7	41	Sep 10	32	Sep 11, 1998
Annual runoff (ac-ft)	380,100		402,500		363,100	
Annual runoff (cfsm)	8.20		8.69		7.83	
Annual runoff (inches)	111.39		117.95		106.40	
10 percent exceeds	1,060		1,020		1,000	
50 percent exceeds	369		400		356	
90 percent exceeds	57		64		90